

Pavani Ayanambakam

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EDUCATION

State University of New York At Buffalo (UB)

Masters in Computer Science and Engineering

August 2023 - Present

Sri Venkateswara University College of Engineering

Bachelor of Technology in Computer Science and Engineering (GPA: 8.81/10)

July 2017 - July 2021

EXPERIENCE

Tata Consultancy Services(TCS)

Full Stack Developer

July 2021 - July 2023

- Proficient in utilizing Angular, Python to design dynamic interfaces and built robust server side logic. Designed more than 16 APIs to support various functionalities within the B24G project, adhering to RESTful principles.
- Designed and implemented a dashboard to summarize, track and monitor 5G core network infrastructure's performance and stability. Used selenium for end-to-end testing and browser automation. Achieved a 30% increase in test coverage and a 15% reduction in bug discovery time.
- Developed more than 35 UI components (charts, graphs, tables, maps) to visualize network data, 15+ interactive elements for data filtering, drilling down, and custom views

nVipani

March - June (2021)

MEAN stack developer (Intern)

- Developed an e-commerce ,B2B application called "ShopConnect" which is a AR/VR based integrated video shopping platform. Robust back end infrastructure is built using Nodejs that handled the complex logistics of 5,000+ product listings across 238 B2B suppliers
 - Gained expertise in React, Bootstrap by building intuitive and aesthetically pleasing interfaces that boosted user engagement and sales by 24% compared to traditional B2B platforms. Designed and implemented RESTful APIs for product data retrieval, order processing, and secure video chat functionalities.
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PROJECT HIGHLIGHTS

Used Automobiles Price prediction

2023

- Performed Data Cleaning, EDA on the selected dataset. Several regression algorithms were applied to build predictive models based on the cleaned and analyzed dataset. Each model's performance was assessed using appropriate evaluation metrics.

Grid World Navigation (Reinforcement Learning tasks)

2023

- Provided a visual representation of how an agent learns to explore its environment and find an optimal path by implementing SARSA, Q-Learning, Double Q-Learning algorithms

Malware Threat Detection using ML models

2021

- Used Machine Learning Models like Gradient Boosting, Sequential neural network, Light GBM to detect the patterns of the malware and achieved 86% accuracy.
- Trained model with huge Malware Threat dataset with 83 features and evaluated its performance using Confusion matrix

Class Attendance through Face detection and recognition

2020

- Used Deep Learning models like Convolutional Neural Networks, Naive Bayes Classifier to detect faces.
 - Used OpenCV package to recognize faces in both image and video streams.
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SKILLS

- Languages: HTML, CSS, JavaScript, TypeScript, Python, Java, bash, git, C, C++, Data Structures and algorithms.
 - Frameworks and Tools: Angular, React, Flask/Django, pyTorch, TensorFlow, scikit-learn, Matplotlib, Power-Bi, Azure, DevOps, Postman.
 - Technologies: Data Science, Machine Learning(LLM), Deep Learning, DBMS, Computer Networks, Cryptography and Network Security
 - Teaming, Analytical, Written and Oral communication skills. Problem solving, analytical and decision making skills.
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ADDITIONAL ACTIVITIES

- Secured above 90% in NPTEL certification courses on Ethical Hacking, Cryptography and Network security.
- Participated in Machine Learning Hackathon as a team. Built a fraud detection system to identify unusual patterns, anomalies in financial transactions.
- Active member in Innovation club whose objective is to discuss and design efficient solutions for real time problems.
- Got 2nd place in final round of Sri Venkateswara University's Chess competition 2019 and reached the semifinals in Caroms competition.